



Network

Цилиндрические

# TNO-7180R

High-speed License Plate Capture Camera



## Key Features

- Maximum 3MP resolution support
- 6.8~120mm(18x) motorized varifocal
- H.265, H.264, MJPEG codec
- Maximum 60fps@3MP all resolutions (H.265, H.264, MJPEG)
- Motion detection, Face detection, Tampering, Loitering, Audio detection
- Micro SD/SDHC/SDXC 1slot (256GB)
- WiseStreamII support
- HPoE, 12VDC
- IR Viewable Length 50m(164.04ft)
- IP66, IK10, NEMA 4X, NEMA TS 2(2.2.8, 2.2.9)

# TNO-7180R

High-speed License Plate Capture Camera



## Specifications

### Video

|                   |                                                                                                                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Imaging Device    | 1/1.8" 3MP CMOS                                                                                                                                                                                                                                               |
| Resolution        | 3M<br>2048x1536, 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240<br>2M<br>1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate    | H.265/H.264: Max. 60fps/50fps(60Hz/50Hz)<br>MJPEG: Max. 15fps/15fps(60Hz/50Hz)                                                                                                                                                                                |
| Min. Illumination | 0.1 Lux (1/30, gain 48dB)                                                                                                                                                                                                                                     |
| Video Out         | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation<br>USB: Micro USB Type B, 1280x720 for installation                                                                                                                                   |

### Lens

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| Focal Length (Zoom Ratio) | 6.8~120mm(18x) motorized varifocal                  |
| Max. Aperture Ratio       | F1.6(Wide)~F4.13(Tele)                              |
| Angular Field of View     | H: 54.5°(Wide)~3.4°(Tele)/V: 42.3°(Wide)~2.5°(Tele) |
| Min. Object Distance      | 2m                                                  |
| Focus Control             | Simple focus, Focus save                            |
| Lens Type                 | DC auto iris                                        |
| Mount Type                | Board in type                                       |

### Operational

|                             |                                                                                                                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Title                | Displayed up to 85 characters                                                                                                                                                                       |
| Day & Night                 | Auto(ICR)                                                                                                                                                                                           |
| Backlight Compensation      | BLC, SSDR                                                                                                                                                                                           |
| Digital Noise Reduction     | SSNR V                                                                                                                                                                                              |
| Digital Image Stabilization | Not Support - TBD                                                                                                                                                                                   |
| Defog                       | Not Support - TBD                                                                                                                                                                                   |
| Motion Detection            | 8ea, polygonal zones                                                                                                                                                                                |
| Privacy Masking             | 6ea, Rectangle zones<br>- Color: Grey/Green/Red/Blue/Black/White(AI 카메라 사양 연동)                                                                                                                      |
| Gain Control                | Support                                                                                                                                                                                             |
| White Balance               | ATW / AWC / Manual / Indoor / Outdoor                                                                                                                                                               |
| LDC                         | Not Support                                                                                                                                                                                         |
| Electronic Shutter Speed    | Minimum / Maximum / Anti flicker (1/25 ~ 1/12,000sec) / Double shutter mode                                                                                                                         |
| Video Rotation              | Flip, Mirror                                                                                                                                                                                        |
| Analytics                   | Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Digital auto tracking, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection |
| Serial Interface            | RS-485/422(Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell)                                                                                                                        |
| Alarm I/O                   | Configurable 4 Port                                                                                                                                                                                 |

Design and specifications are subject to change without notice.

Hanwha Vision is formerly known as Hanwha Techwin.

|                    |                                                                                                                              |
|--------------------|------------------------------------------------------------------------------------------------------------------------------|
| Alarm Triggers     | Analytics, Network disconnect, Alarm input                                                                                   |
| Alarm Events       | File upload via FTP and e-mail<br>Notification via e-mail<br>SD/SDHC/SDXC or NAS recording at event triggers<br>Alarm output |
| Audio In           | Selectable(mic in/line in)<br>Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm                                           |
| Audio Out          | Line out, Max.output level: 1Vrms                                                                                            |
| IR Viewable Length | 50m                                                                                                                          |
| IR LED             | 4                                                                                                                            |
| IR Operation       | TBD                                                                                                                          |

|                                   |                                                                                                                                                                                                                           |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Network</b>                    |                                                                                                                                                                                                                           |
| Ethernet                          | RJ-45(10/100/1000BASE-T)                                                                                                                                                                                                  |
| Video Compression                 | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                                    |
| Smart Codec                       | Manual(5ea area), WiseStream II                                                                                                                                                                                           |
| Bitrate Control                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                                                     |
| Streaming                         | Unicast(20 users) / Multicast<br>Multiple streaming (Up to 10 profiles)                                                                                                                                                   |
| Protocol                          | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP, SRTMP                         |
| Security                          | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP)<br>Device Certificate(Hanwha Techwin root CA)<br>Secure boot<br>TPM |
| Application Programming Interface | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet open platform v3.60                                                                                                                                                    |

|                  |                                                                                                                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>   |                                                                                                                                                                                                                   |
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish,, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek                                                              |
| Web Viewer       | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12<br>Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only) |
| Edge Storage     | Micro SD/SDHC/SDXC 1slot (256GB)                                                                                                                                                                                  |
| Memory           | 2048MB RAM, 256MB Flash                                                                                                                                                                                           |

|                                       |                                                                                                                                                                                                              |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental &amp; Electrical</b> |                                                                                                                                                                                                              |
| Operating Temperature / Humidity      | Normal : -40°C~-55°C(-40°F ~ +131°F) / Intermittent : -40°C~+60°C(-40°F ~ +140°F)<br>Cold start : -40°C<br>Maximum Temperature based on NEMA-TS 2(2.2.7) : +74°C(+165°F)<br>Less than 95% RH(Non-condensing) |
| Storage Temperature / Humidity        | -50°C~+60°C / Less than 95% RH(Non-dondensing)                                                                                                                                                               |
| Certification                         | IP66, IK10, NEMA 4X, NEMA TS 2(2.2.8, 2.2.9)                                                                                                                                                                 |
| Input Voltage                         | HPoE, 12VDC                                                                                                                                                                                                  |
| Power Consumption                     | PoE : Max 50W, Typical 27W<br>12VDC : Max 47.5W, Typical 25W                                                                                                                                                 |

|                   |         |
|-------------------|---------|
| <b>Mechanical</b> |         |
| Color / Material  | White   |
| RAL Code          | RAL9003 |

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Product Dimensions / Weight

W186.9 x D293.7 x H259.3 (mm) / 4.8kg